

Independent Study: Mid Report

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Abstract

Only two levels of sectional headings, `\section` and `\subsection`, should be used. Ad nemo aut quae dolores nesciunt reprehenderit occaecati. Optio distinctio at aliquam odit dolores laudantium. Illum et qui iste et laudantium dolorum. Nihil quis qui at quia alias. Quisquam ea sit aspernatur. Labore at hic voluptas cumque eum officia repellat.

Keywords: Quisquam, labore at hic, voluptas cumque, eum officia repellat.

1 Notes

1. Differential Dynamic Programming
2. Certificates
3. Applications in db
4. Other papers read
5. Results

2 Example of a first section

Here's an example parenthetical citation (Lees-Miller, Hammersley, and Wilson 2010) and a text citation: Urmson *et al.* (2008). There isn't a good, up-to-date BibTeX style for the Chicago style, so we're using `biblatex-chicago` instead. This means you'll need to run `biber` instead of `bibtex` if you're compiling this template on your local \LaTeX installation: on Overleaf, `biber` is run automatically. You can add pre-notes with citations (see also) too, as well as multiple citations (Geiger, Lenz, and Urtasun 2012; Lees-Miller, Hammersley, and Wilson 2011) in a single `\citep{...}` or `\citet{...}`.

This is an equation, numbered

$$I(\Lambda) = \sum_{i=1}^n \sum_{w=1}^q (z_{iw} \ln(\lambda_{iw}) - \lambda_{iw} - \ln(z_{iw}!)) \quad (1)$$

and one that is not numbered

$$\int_0^{+\infty} e^{-x^2} dx = \frac{\sqrt{\pi}}{2}$$

and one inlined: $e^{i\pi} = -1$. As usual you can cross-reference equations with Equation 1 or (1).

Figure 1 shows a normal figure, while figure 2 show one made up of two sub-figures. Figure 3 is an example of a landscaped figure. You can use the `\subcaption{...}` command from the `subcaption` package to add captions for subfigures and subtables, but do not use the `subfigure` package: it is incompatible with this template.

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This is a margin note, x^2 , well this looks good so far

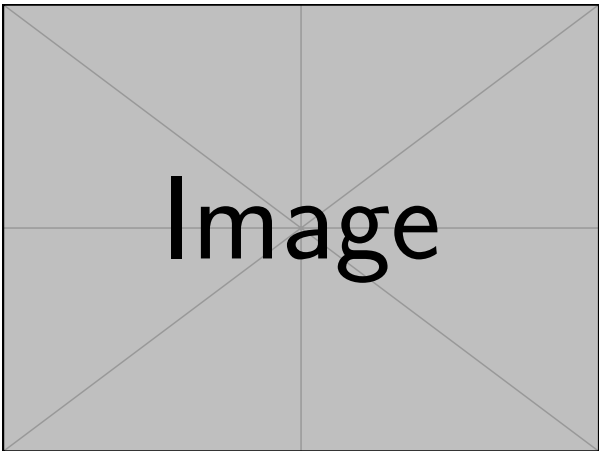


Figure 1. This is a figure caption. Let's see what happens when it's long and contains citations (Geiger, Lenz, and Urtasun 2012) and cross-references: 2. Yep, works. Captions should not contain manual line breaks!

Table 1. Automobile Land Speed Records (GR 5-10). Source: https://www.sedl.org/afterschool/toolkits/science/pdf/ast_sci_data_tables_sample.pdf

Speed (mph)	Driver	Car	Engine	Date
407.447	Craig Breedlove	Spirit of America	GE J47	8/5/63
413.199	Tom Green	Wingfoot Express	WE J46	10/2/64
434.22	Art Arfons	Green Monster	GE J79	10/5/64
468.719	Craig Breedlove	Spirit of America	GE J79	10/13/64
526.277	Craig Breedlove	Spirit of America	GE J79	10/15/65
536.712	Art Arfons	Green Monster	GE J79	10/27/65
555.127	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/2/65
576.553	Art Arfons	Green Monster	GE J79	11/7/65
600.601	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/15/65
622.407	Gary Gabelich	Blue Flame	Rocket	10/23/70
633.468	Richard Noble	Thrust 2	RR RG 146	10/4/83
763.035	Andy Green	Thrust SSC	RR Spey	10/15/97

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Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit, qui in ea voluptate velit esse, quam nihil molestiae consequatur, vel illum, qui dolorem eum fugiat, quo voluptas nulla pariatur?

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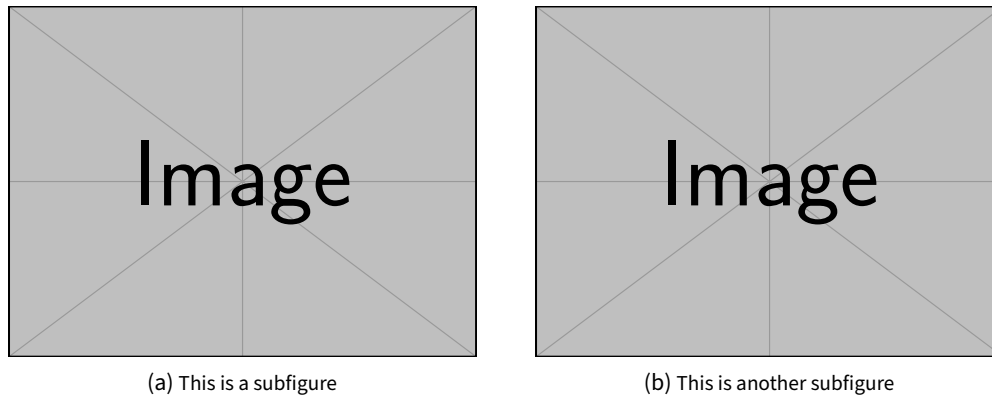


Figure 2. This is a caption for the entire figure

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3 Heading on level 1 (section)

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3.1 Heading on level 2 (subsection)

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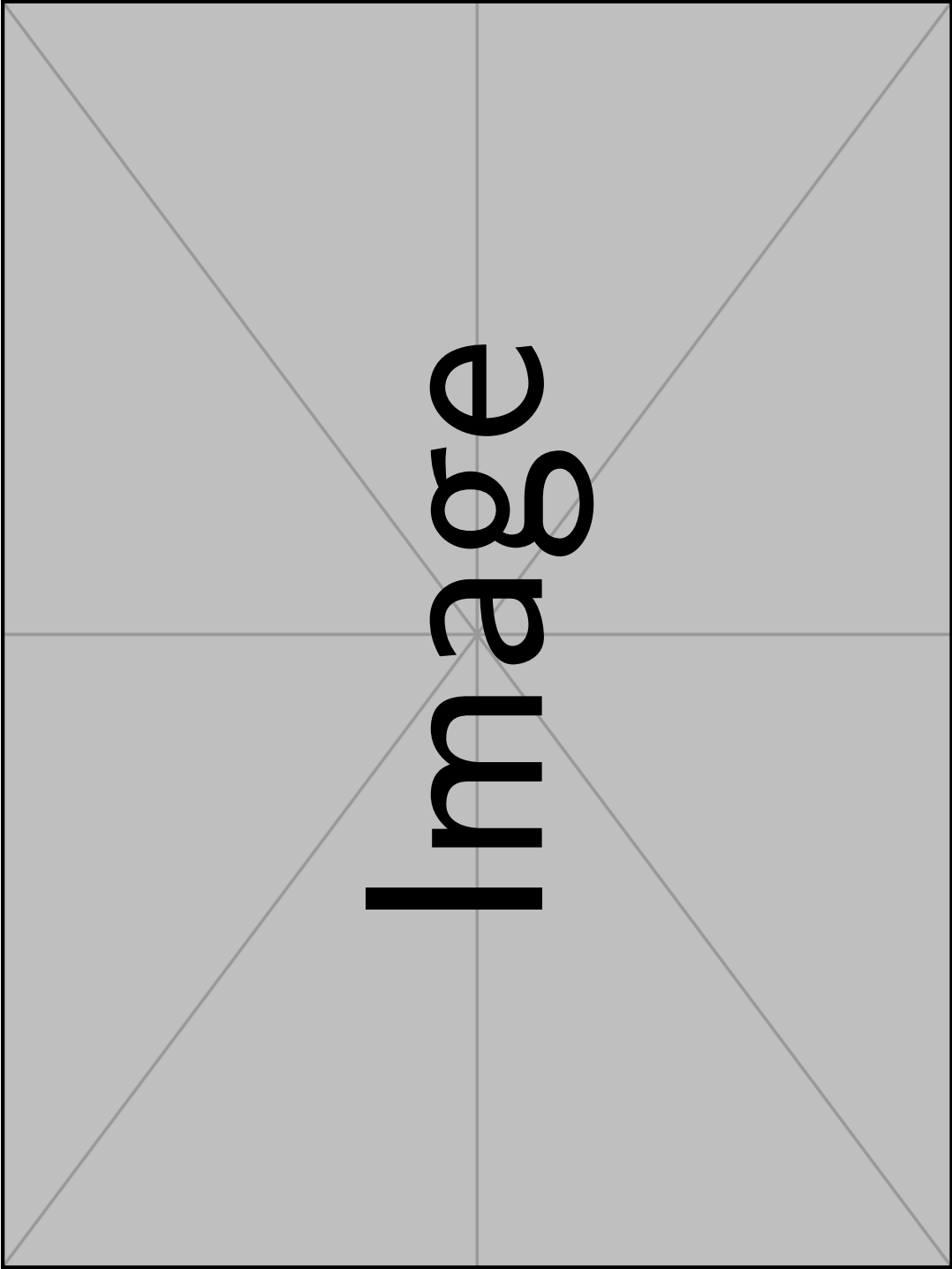


Figure 3. This is a figure caption

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Heading on level 3 (subsubsection)

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4 Lists

4.1 Example for list (itemize)

- First itemtext
- Second itemtext
- Last itemtext
- First itemtext
- Second itemtext

Example for list (4*itemize)

- First itemtext
 - First itemtext
 - * First itemtext
 - First itemtext
 - Second itemtext
 - * Last itemtext
 - First itemtext
- Second itemtext

4.2 Example for list (enumerate)

1. First itemtext
2. Second itemtext

3. Last itemtext
4. First itemtext
5. Second itemtext

Example for list (4*enumerate)

1. First itemtext
 - (a) First itemtext
 - i. First itemtext
 - A. First itemtext
 - B. Second itemtext
 - ii. Last itemtext
 - (b) First itemtext
2. Second itemtext

4.3 Example for list (description)

First itemtext

Second itemtext

Last itemtext

First itemtext

Second itemtext

Example for list (4*description)

First itemtext

First itemtext

First itemtext

First itemtext

Second itemtext

Last itemtext

First itemtext

Second itemtext

A supplementary material section will always appear before the Reference list. If you're certain that your submission won't have any supplementary material, you can add the `nosupp` option to the document class declaration, i.e.

```
\documentclass[nosupp]{cup-pan}
```

Supplementary Material

(This is dummy text) For supplementary material accompanying this paper, please visit <https://doi.org/10.1017/pan.xxxx.xx>.

References

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